40392
48” x 24” POLYMER CLAMSHELL CABINET

ASSEMBLY INSTRUCTIONS

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WARNING!

Do not use an ALC Cabinet Blaster until you have read this manual and you understand its contents and warnings. These warnings are included for the health and safety of the operator and those in the immediate vicinity. Keep this manual for future reference.

Dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals known to cause cancer, birth defects or other reproductive harm and respiratory illnesses. Some examples of the chemicals include:

- **Lead from lead based paints**
- **Crystalline silica from bricks, cement and other masonry products**
- **Arsenic and chromium from chemically-treated lumber**

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Abrasive blasting produces harmful dust. Everyone in the blasting area must wear a properly fitted and properly maintained NIOSH approved air supplied respirator.

SILICOSIS AND OTHER DUST WARNINGS:

Breathing dust from silica sand may cause silicosis, a fatal lung disease. Breathing dust during blasting operations may also cause asbestosis and/or other serious or fatal diseases. A NIOSH-approved, well maintained air supplied abrasive blasting respirator must be used by anyone blasting, anyone handling or using media containing toxic substances or media with more than point one percent (.001) free crystalline silica and anyone in the area of the dust. Harmful dust can remain suspended in the air for long periods of time after blasting has ceased, causing serious injury or death.

Before removing respirator, use an air monitoring instrument to determine if atmosphere is safe to breathe. Contact local OHSA or NIOSH office to determine the proper respirator for your particular application.

Air supplied respirators do not remove or protect against carbon monoxide (CO) or any other toxic gas. Use a carbon monoxide removal device and monitoring device with the respirator to ensure grade D quality air. Follow all applicable OSHA standards and OSHA regulation 1910.134 (d).

ASSEMBLY INSTRUCTIONS

1. Assemble legs to cabinet bottom using 1/4-20 x 1” screw and 1/4" washer on the outside of the cabinet. On the inside, use 1/4" rubber washer, 1/4" washer and 1/4-20 hex nut. Once the legs are attached, place 1-1/4" plastic plug in bottom.
2. Assemble frame according to numbers using 1/4-20 x 1/2” screws, 1/4” washers and 1/4-20 hex nuts.
3. Place cabinet bottom in frame and attach cabinet to frame.
4. Attach 23” support strap to each side using 1/4-20 x 1/2” screw, 1/4” washers and 1/4-20 hex nut. Strap goes from top back frame to side of cabinet.
5. Place cabinet lid on cabinet bottom and attach 3 hinges using 1/4-20 x 1” screw, 1/4” washer and 1/4-20 hex nut.
6. Install light kit, according to instructions, onto left side of cabinet lid. Install light bulb (not included) 60 watt maximum.
7. Install grate, pick-up tube, hose and siphon gun.
8. Install gloves using 4-1/2" – 6-1/2” clamps.

AIR COMPRESSOR RECOMMENDATION:

To permit efficient operation of your air compressor, follow these guidelines:

1. Use a smaller size nozzle and air jet to control the demand of air.
2. Do not blast continuously. Stop blasting operation periodically to allow the compressor to cool. No compressor is designed to constantly run at full RPM. Use 70% of the rated output.
3. Use a minimum 1/2” air hose or metal piping from your air compressor to the blaster. If your compressor is creating an excessive amount of moisture, we recommend using a water trap

or a moisture separator.

4. The air compressor should be drained at the bottom of the supply tank through a drain valve and should be blown down daily. It is not unusual to drain three or four gallons of water from the supply tank on a high humidity day. An additional supply tank will help.

5. Keep dust and media created by blasting away from the air compressor unit. Observe maximum air pressure requirements for the blaster and either set your compressor to run within these limits or use a pressure regulator valve to reduce the air pressure to the appropriate range.

ABRASIVE (MEDIA) USAGE:

1. If moisture is in the media it will eventually damage the blaster tank or plug the system. Keep the media and compressor air dry to avoid this problem.

2. If media is moist, screen it and dry it before using.

3. Do not leave media in the tank after blasting because it can absorb moisture and impair blasting performance.

4. Store media in a dry place; keep media off the ground or concrete floors. Put it on a wooden skid.

5. If the humidity is excessively high, it may not be advisable to blast at that time.

6. Consider using different grades or different types of media to prevent nozzle clogging due to high moisture content.

7. Do not use sand.

WARNING!

Disconnecting hose while Unit is under pressure could cause serious injury or death. Use safety lock pins and safety cables in all coupling connections to help prevent hose couplings from accidental disconnection.

If twist-on type air hose couplings are used, they must be secured by safety lock pins or wires to prevent accidental disconnection while under pressure. Hose disconnection while under pressure could cause serious injury.

CABINET BLASTER SAFETY PROCEDURES

CAUTION: READ THESE SAFETY PROCEDURES IN THEIR ENTIRETY – PARTS OF THE OPERATING INSTRUCTIONS ARE WITHIN THESE WARNINGS.

These procedures are not intended to be exhaustive due to the many variables in the abrasive blasting field. Therefore, we INSIST that the hands, ears, mouth, nose and eyes be covered with appropriate safety protection at all times.

ADDITIONAL WARNINGS!
CAUTION MUST BE EXERCISED BY USER AT ALL TIMES

1. **Do not exceed maximum working pressure of 110 PSI. Failure to keep maximum working pressure below 110 can cause the blast machine to burst, causing death or serious injury.**

2. **Everyone in the blast area including the equipment operator should correctly use and maintain a NIOSH approved air supplied respirator, even after blasting has ceased. Harmful dust can remain suspended in the air for long periods of time after blasting has ceased causing injury or death**

3. **Before using the pressure blaster: Put on eye protection, gloves, and NIOSH approved respirator. Always wear these protective items when operating and while servicing your abrasive blaster. A well maintained air supplied blasting respirator must be used by anyone blasting.**

4. **For safe operation, perform recommended preventive maintenance on blaster cabinet, and accessories. Replace all worn parts before they fail. Immediate replacement of worn components is required. Failure to replace worn components could result in exposing the operator or bystanders to high speed media and compressed air, causing serious injury.**

5. **Do not use corrosive materials of any type in unit. Use only clean, dry media.**

6. **Static electricity can be created by the use of this equipment. Do not use within fifty feet of any explosive, potentially explosive substances, or their vapors as an explosion can occur.**

7. **Do not use this equipment in any area that might be considered hazardous or where flammable gases or liquids are present. Failure to do so may cause an explosion resulting in serious injury.**

WARNING!

The threads on the nozzle holder and set screws must be inspected each time the nozzle is secured to the holder. Check the threads for wear, and make sure nozzle set screw securely grips the nozzle. The nozzle washer must also be inspected for wear. Worn nozzle washers cause erosion. A loose-fitting nozzle may eject from the holder under pressure and could cause severe injury.

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Left legs and right legs have different hole positions. Leg top with two holes on one side should point front and rear not to side of cabinet. Install legs per instructions with top of leg 10" up from bottom lip of cabinet. After installation of all corner legs, install side supports and back support.

Part No.	Description	Qty.	Part No.	Description	Qty.
10367	Clamshell lid	1	40142	1/4" rubber washer	12
	Clamshell bottom	1	11110	Hasp lock	2
11582	47" x 23" Grate	1	11646	Louver	1
19003	31" Left Leg	2	40251	12" x 24" Window lens	1
19004	31" Right Leg	2	4025300	Window lens underlay	1
19005	48" Left side support	1	10904	1-1/4" Diameter hopper plug	2
19006	48" Right side support	1	11640 CS	Rubber gloves	1 pair
19007	49" Rear support	1	40240	Glove clamps – pair	1 pair
19008	49" Lid support	1	11604	ALC Gun w/15 cfm nozzle	1
19009	36" Upright lid support	2	40343	Pick-up tube	1
19010	23" Support strap	2	40338	Economy light kit (60 watt)	1
11601	1/4" x 1" PSA foam/per foot	6'	10693	1/4-20 x 1" Bolt	30
58113	4" Hinge	3	10182	1/4-20 x 1/2" Bolt	12
11605	6' Straight hose	1	10201	1/4-20 Hex nut	42
11601	1/2" x 1" PSA foam/per foot	14	10218	1/4" Washer	66
11644	Snap fastener	6	11160	8-32 x 1/2" Screw	16
11109	Hasp latch	2	11161	8-32 Hex nut	16

MOUNTING INSTRUCTIONS FOR THE ECONOMY LIGHT KIT

1. Using drill dimension sheet, drill 1.467 (1-7/16) hole in left side of cabinet. Drill (2) 0.187 (3/16) holes 1.625 (1-5/8) from center of large hole, one above and one below.

2. Unscrew ceramic lampholder and install base through hole from outside and attach gasket and socket from inside.

3. Attach electrical box to outside of cabinet using 8-32 x 1/2" machine screws and nut. **NOTE:** Attach ground wire (green) to one of the screws that holds the box to the cabinet.

4. Attach neutral wire (white) from power cord to silver screw on socket base.

5. Attach black wire from socket base to one of the screws on the side of the switch.

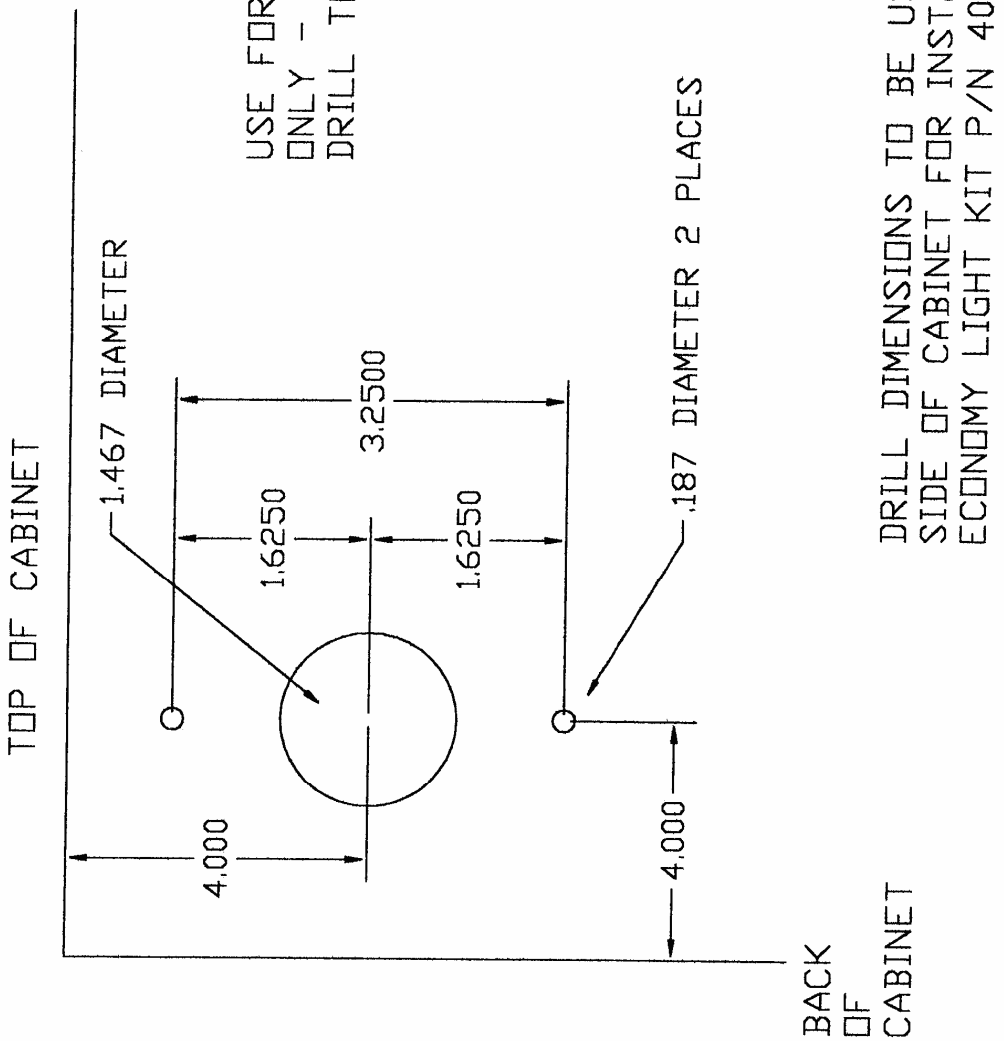
6. Attach black lead from power cord to the other screw on the side of the switch.

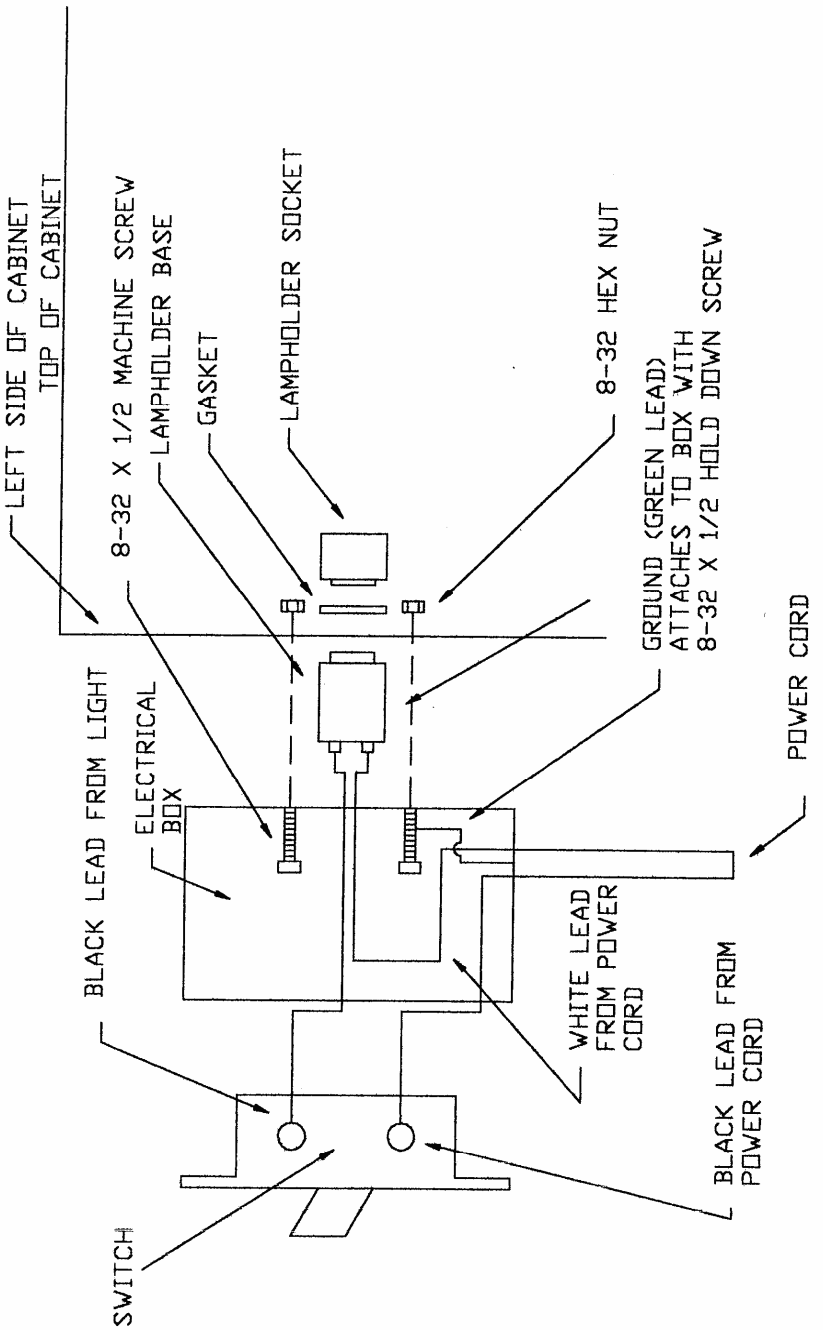
7. Attach switch to box and install cover.

8. Install light bulb (not included) maximum 60 watt.

WARNING
Follow all electrical and safety codes as well as the National Electrical Code (NEC) and OSHA Regulations.

Light Kit Components	
Part No.	**Description**
11641	Lampholder
11642	Electrical box
11008	Power Cord
11009	Switch
11011	Box Cover
11160	8-32 x ½” Machine Screw
11161	8-32 Nut


TOP OF CABINET
1.467 DIAMETER
4.000
1.6250
3.2500
1.6250
.187 DIAMETER 2 PLACES
4.000
BACK OF CABINET
USE FOR DIMENSIONS ONLY - NOT AS A DRILL TEMPLATE
DRILL DIMENSIONS TO BE USED ON LEFT SIDE OF CABINET FOR INSTALLATION OF ECONOMY LIGHT KIT P/N 40338



Maximum 60 watt light bulb (not included)

MAINTENANCE

WARNING!

Failure to observe the following before performing any maintenance could cause serious injury or death from the sudden release of compressed air:

- **Disconnect power supply.**
- **Lockout and tagout the compressed air supply.**
- **Bleed the air supply line to the blast gun.**

Immediate replacement of worn components is required. Failure to replace worn components could expose the operator or bystanders to high speed media and compressed air could cause death or serious injury.

Leaks around couplings and nozzle holders indicate worn or loose fitting parts. Nozzle holders and couplings that do not fit tightly on hose and nozzles that do not fit tightly in nozzle holders could disconnect while under pressure. Impact from nozzles, couplings, hoses, or abrasive, and parts disconnected while under pressure could cause severe injury.

TROUBLESHOOTING TIPS

PROBLEM/CAUSE	POSSIBLE SOLUTION
Surging of blast flow:	
Air pressure too low	Check pressure gauge on compressor
Excessive media consumption:	
Air pressure too low	Check pressure gauge on compressor
Clogging and plugging of blast flow:	
Debris in media	Purge and screen
Media size too large	Use smaller grit size
Nozzle plugs	Use larger nozzle and correct
Wet media	Dry media, drain water from air
Moisture in abrasive media:	
Wet media	Change or use dry media
Water in air	Drain water from air lines
Humid weather:	
Moderate humidity	Keep media as dry as possible
Moderate humidity	Use drier or moisture separator
High humidity	Avoid that period of use if possible

Overtaxed Compressor:

Compressor too small	Restrict time used
Nozzle size too large	Use smaller size
Too many leaks in plumbing	Seal and tighten plumbing
Holes in abrasive hose	Replace hose
Air filter on compressor plugged	Clean or replace filter

Lack of air pressure:

Compressor too small	Use smaller nozzle
Supply valves not on full position	Open valves
Nozzle size too large	Use smaller size
Leaks in plumbing	Seal and tighten plumbing
Holes in abrasive hose	Replace hose
Air filter on compressor plugged	Clean or replace filter

Lack of abrasive flow:

Blaster empty	Fill cabinet
Moisture in media	Dry media
Not enough air pressure	Check system
Abrasive hose kinked	Straighten hose
Debris in media	Clean or screen media

Coal Slag # 40093

Coal Slag is used when paint and rust has to be removed from steel, such as car bodies, tanks or heavy machinery. Coal Slag is faster cutting, can be re-used, is moisture free, and will not pack or absorb moisture. (25 Lb. container)

Steel Grit #40109

Steel grit is extremely fast cutting on rusty metal and hard to remove paint. Steel Grit is popular because it leaves a very smooth finish. It is also comparable in price to most other specialty abrasives. Steel Grit is recommended in reclaim systems or cabinets. (25 Lb. container)

Glass Bead #40105

Glass Bead is used in creating a satin or matte finish. Glass Bead is recommended in reclaim systems or cabinets. (25 Lb. container)

Aluminum Oxide #40098

Aluminum Oxide is a high quality abrasive that is sharper than sand (not recommended) and cuts twice as fast as sand. It leaves a smooth textured finish with no pits or burrs. Aluminum Oxide is rougher than glass bead and can be used over and over again. It is one of the most economical abrasives you can use in any reclaim systems or cabinets. (4/25 Lb. container)

Plastic Grit #40110

Primarily used to strip aluminum and fiberglass. Great for stripping paint, light oxidation and surface rust. Recommended for use in blast cabinets because it creates very little dust. Works quickly, last a long time and increases visibility within the cabinet. (10 Lb. container)

Walnut Shells #40112

Walnut shells are recommended for use on “soft” surfaces such as aluminum, glass, wood, and other areas where no pitting is desired. Leaves a smooth, dull finish. (10 Lb. container)

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